

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P798390

Luminaire Tested: 22CZSB-SCT3-SQP-UNV-MID-3500K

Issue Date: 3/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P798390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSB-SCT3-SQP-UNV-MID-3500K
Description: Cruze SB Selectable Troffer
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

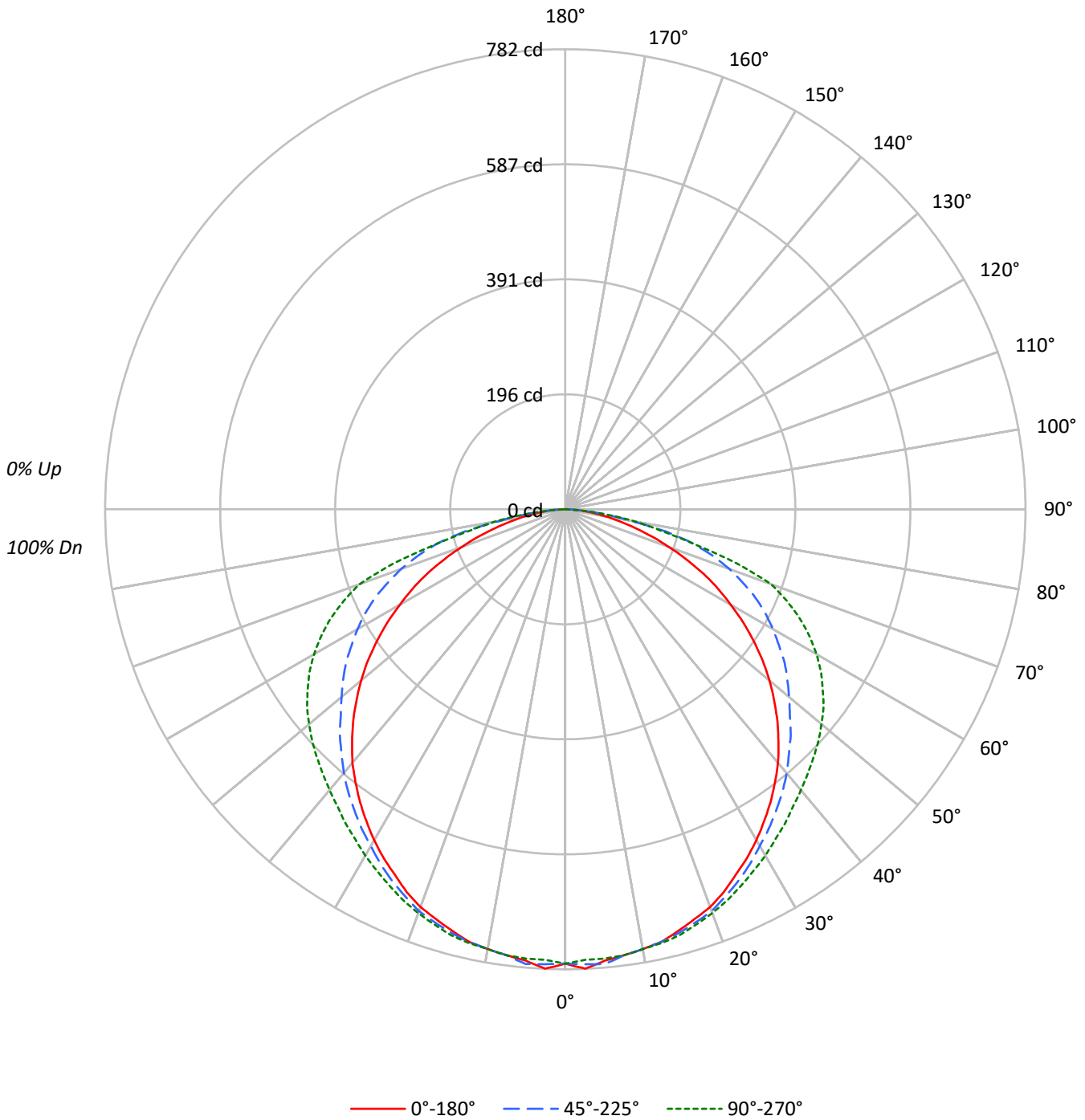
Lumens per Lamp: N/A
Luminaire Lumens: 2431.2 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 26.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	70	70	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	58	58	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	50	50	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	43	43	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	37	37	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	33	33	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	29	29	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	27	27	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2078	2078	2078
5°	2081	2096	2071
10°	2074	2074	2074
15°	2067	2077	2088
20°	2060	2081	2092
25°	2035	2068	2097
30°	2018	2053	2112
35°	1997	2053	2140
40°	1976	2056	2188
45°	1940	2062	2271
50°	1897	2079	2380
55°	1834	2135	2507
60°	1747	2194	2652
65°	1647	2273	2802
70°	1471	2334	2927
75°	1275	2336	2318
80°	1082	1728	1872
85°	932	1167	1053

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 70°
 Luminance: 2927 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	3.0
10°-20°	210.6	8.7
20°-30°	320.9	13.2
30°-40°	392.6	16.1
40°-50°	422.4	17.4
50°-60°	409.2	16.8
60°-70°	346.6	14.3
70°-80°	209.5	8.6
80°-90°	46.1	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	604.7	24.9
0°-40°	997.4	41.0
0°-60°	1829.0	75.2
0°-90°	2431.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2431.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	770	770	776	772	767	73
15°	742	744	746	748	750	210
25°	685	689	697	702	706	316
35°	608	612	625	642	651	380
45°	510	519	542	576	597	393
55°	391	408	455	508	534	349
65°	259	287	357	414	440	255
75°	123	166	225	228	223	132
85°	30	36	38	36	34	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.2	772.2	772.2	772.2	772.2
2.5°	781.6	779.8	774.0	770.3	766.6
5°	770.3	770.3	775.9	772.2	766.6
7.5°	764.6	764.6	764.6	774.0	764.6
10°	759.0	760.7	759.0	766.6	759.0
12.5°	753.3	753.3	753.3	755.3	755.3
15°	742.0	743.8	745.7	747.7	749.6
17.5°	730.5	732.7	736.4	738.1	740.1
20°	719.4	721.2	726.8	726.8	730.5
22.5°	704.2	704.2	711.8	713.6	719.4
25°	685.3	689.2	696.6	702.5	706.2
27.5°	668.4	672.3	679.7	687.3	692.9
30°	649.5	653.2	660.8	672.3	679.7
32.5°	628.8	632.5	643.8	657.1	664.7
35°	608.0	611.8	624.9	642.1	651.4
37.5°	585.4	591.0	606.0	624.9	636.2
40°	562.6	568.4	585.4	606.0	623.0
42.5°	536.1	543.7	562.6	591.0	609.7
45°	509.8	519.1	541.9	575.8	596.7
47.5°	481.5	490.9	517.4	560.8	583.4
50°	453.1	464.5	496.5	543.7	568.4
52.5°	422.9	434.3	475.7	526.7	553.2
55°	390.9	407.7	455.0	508.0	534.3
57.5°	358.7	377.6	430.4	487.1	515.4
60°	324.6	347.3	407.7	464.5	492.8
62.5°	292.7	317.1	383.3	440.0	468.1
65°	258.6	286.8	357.0	413.5	440.0
67.5°	222.9	258.6	326.8	381.3	407.7
70°	186.9	228.4	296.6	347.3	372.0
72.5°	154.9	198.2	262.5	305.9	305.9
75°	122.6	166.0	224.7	228.4	222.9
77.5°	94.5	136.0	175.6	160.4	164.3
80°	69.8	103.9	111.5	117.1	120.8
82.5°	47.2	69.8	71.9	75.6	75.6
85°	30.2	35.9	37.8	35.9	34.1
87.5°	13.2	15.0	11.5	7.6	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)